



DOUGLAS

→ DC-5

CHRYSLER

DOUGLAS



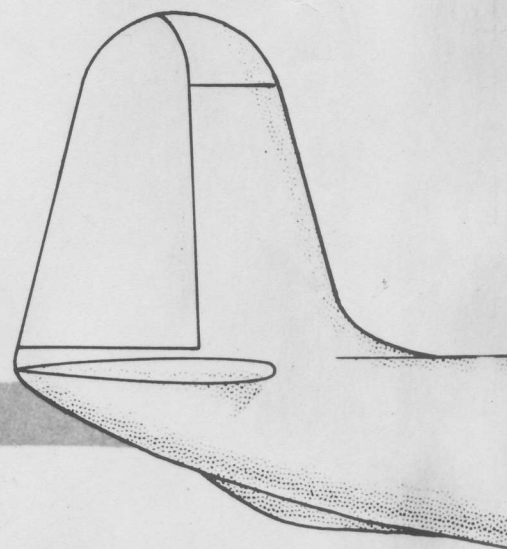
DC-5

Deluxe utility for the airlines

Completely modern, yet not radical and attaining a new degree of standardization, the Douglas DC-5 is a 16-passenger high wing monoplane specifically designed for profitable short range airline operations. Incorporating advanced safety factors and built to get in and out of small airports easily, the DC-5 fills a definite need and opens up new opportunities in air transportation.

The DC-5 was designed to meet present airline needs and future operating conditions. It's tricycle landing gear, with a nose wheel retractable into the fuselage and the two main wheels, also retractable, located aft of the center of gravity, make it ideal for "blind" landings. This gear eliminates the possibility of nosing over or ground looping. The brakes may be fully applied on contact with the ground. It makes cross-wind landings and take-offs practical and gives new mastery of control, even on the smallest fields. Because the airplane remains level in take-off or in landing, this gear adds immeasurably to the comfort of passengers and improved visibility for the pilot.

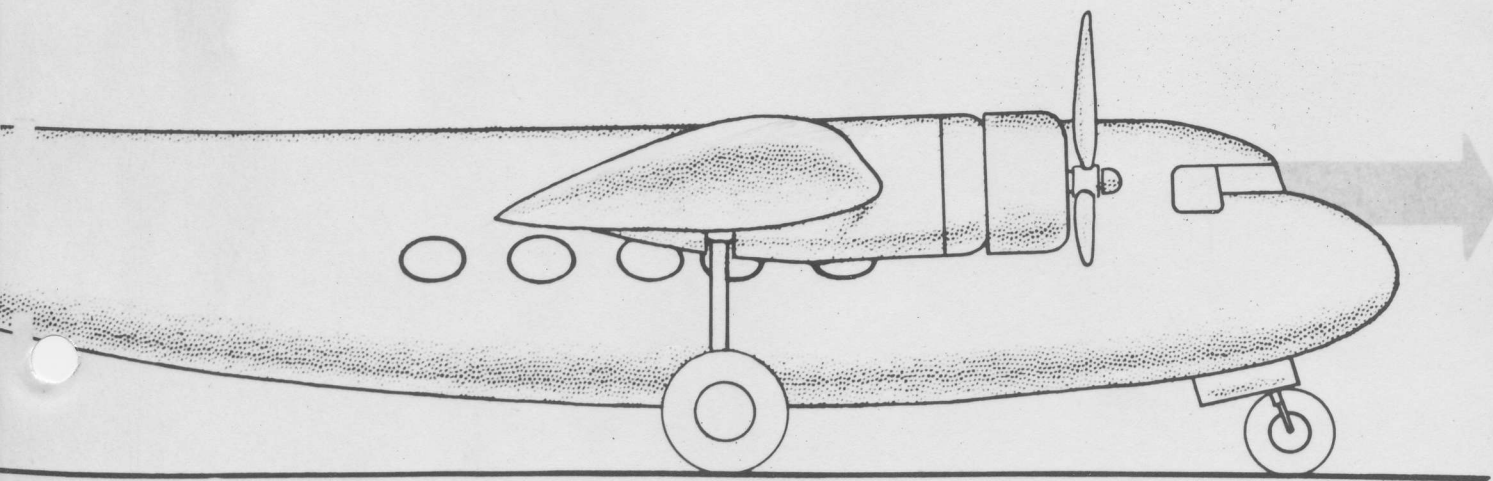
Other factors for safety and practical short haul operations include a wing loading almost 30% less than other recent designs, and an excellent power loading. Thus the airplane has unusual stability at low flying speeds. No other design has been projected with greater consideration for the airfoil section with particular attention given to the important section at the wing tip.



The DC-5 has the same "simple" flap as used on the DC-4. This flap is of importance since it allows excellent tail surface control when lowered. In addition to these design features of stability and control, best known practices are employed in regard to wing taper ratio and similar technical design considerations.

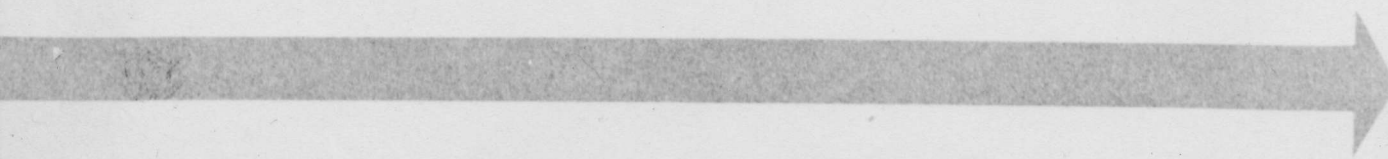
The airplane incorporates numerous time tested and proven features of the DC-2 and DC-3. Many parts including engine mounts, collector rings, control columns, rudder pedals and pilot's seats etc. are interchangeable with previous models. This standardization insures perfection of these parts through service development, effects substantial production economies and saves the operator a considerable investment in spare parts.

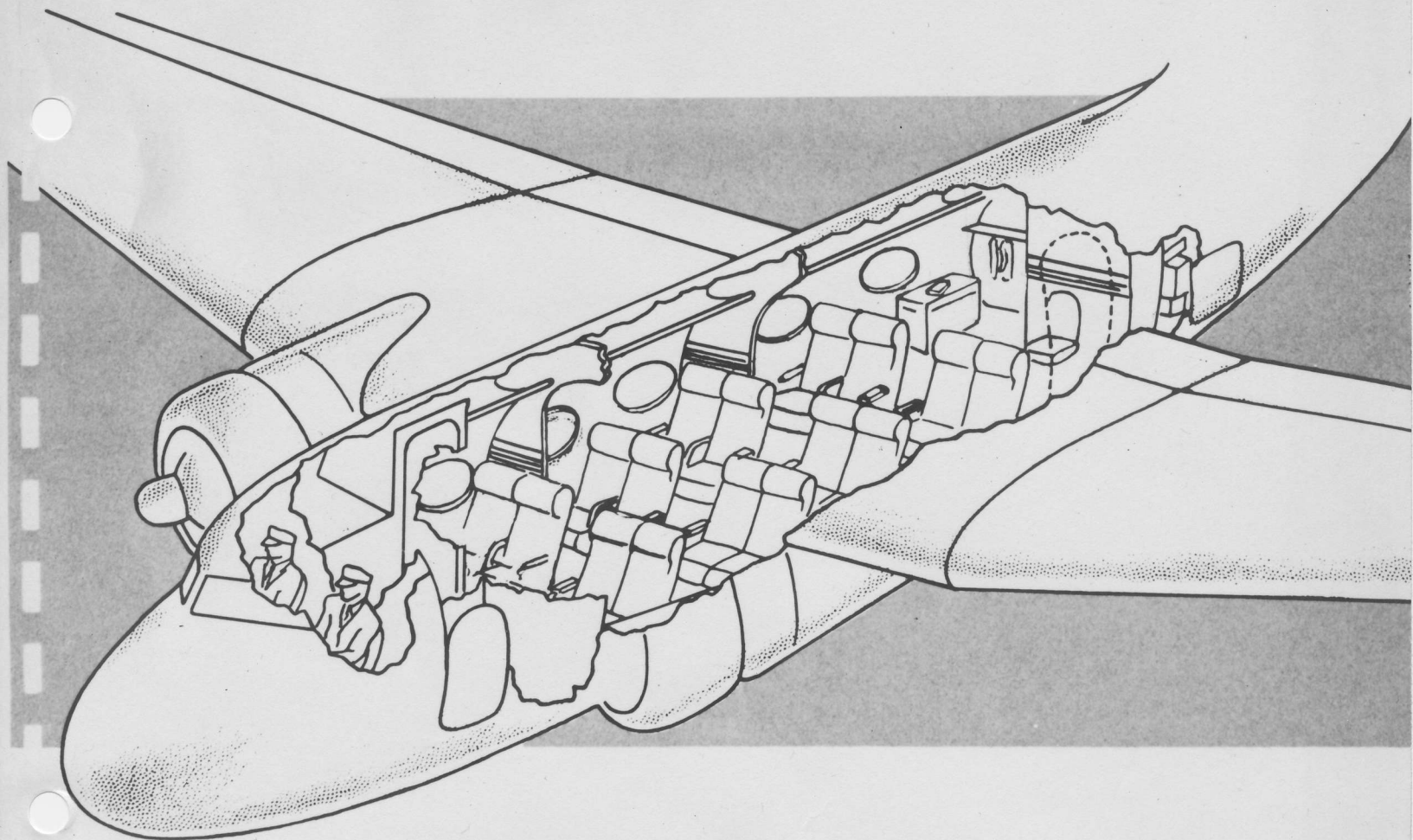
Simple, rugged design, ease and economy of maintenance and excellent aerodynamic characteristics assure economical operation and make possible greater returns on the investment.



Of necessity maintenance must be a major consideration, especially to the short haul operator serving a low revenue territory. Typical of this consideration in the DC-5 is the high wing which allows an overhead control system with control cables going directly from the control station to the spar, then out to engines. This eliminates control pedestals and a series of pulleys and fairleads necessary with low wing design. Simple cover plates on top of the fuselage and in the ceiling provide easy access. This makes possible the permanent installation of the floor and should increase life of control cables since they are not exposed to grit as in the case of cables running under the floor. Other provisions for simplified maintenance are noted elsewhere.

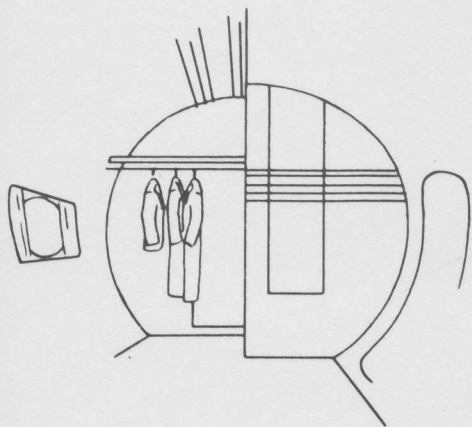
With a convenient and comfortable seating arrangement for 16 passengers, a crew of three and cargo compartments totaling 272 cubic feet, the DC-5 possesses loading characteristics heretofore unapproached. As the fuselage arrangement provides centering passenger and cargo loads near the center of gravity loading presents no technical problem therefore speeds up the operation which will be reflected in improved elapsed schedules.





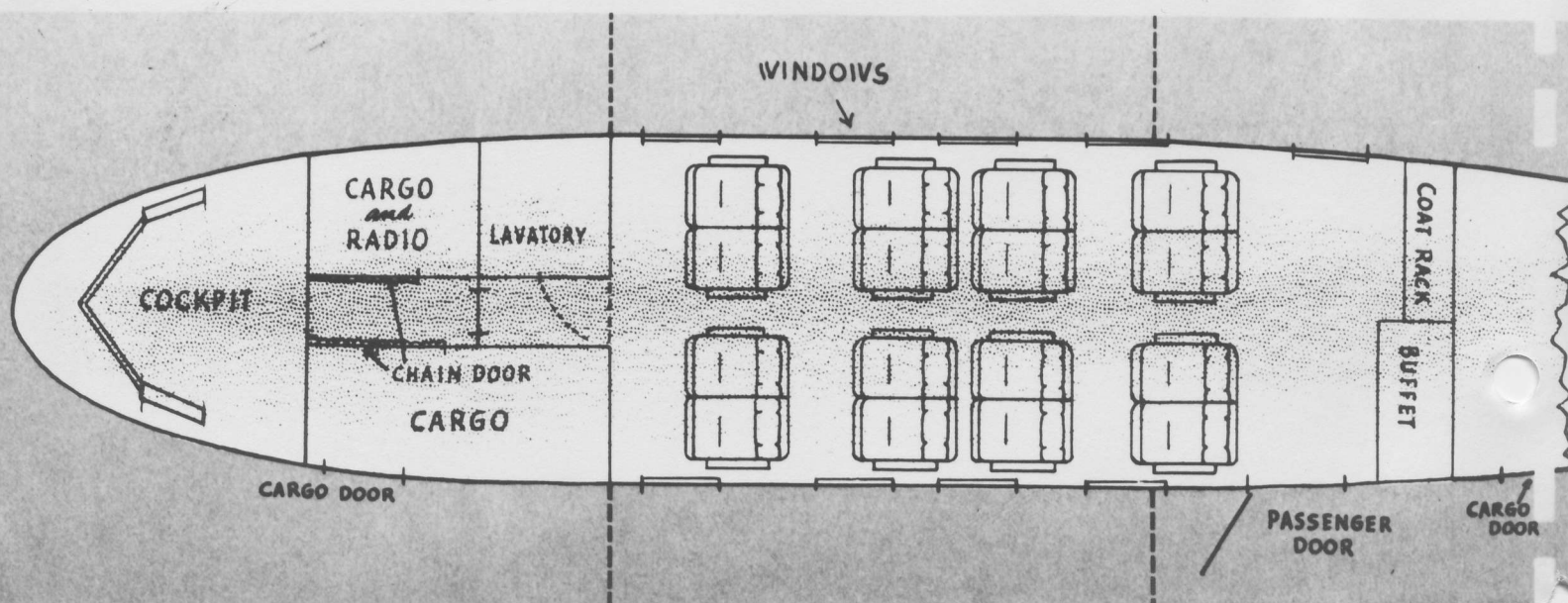
We believe that here is an airplane of extraordinary passenger appeal. It is of good proportion, looks fast, sleek and sturdy. The circular fuselage with its oval windows makes an attractive design and the plane's proximity to the ground, with the wing above, appeals to the average person who views its appearance as natural.

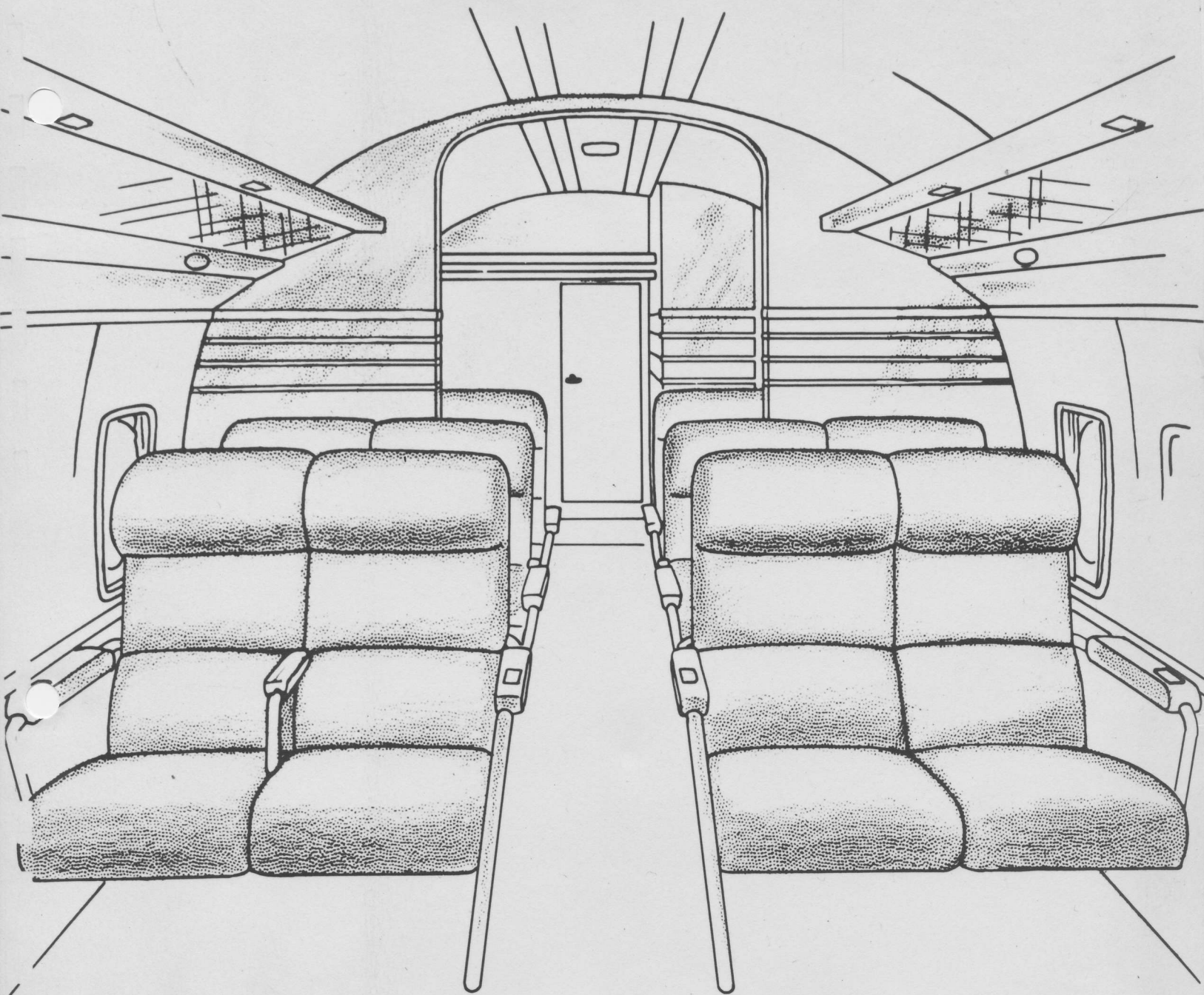
To the passenger, seated in a scientifically designed, deeply upholstered chair, the DC-5 affords the unsurpassed visibility true only of high wing planes. Due to the scientific sound-proofing of the cabin with latest developed materials, the passenger's enjoyment is enhanced by lack of extraneous noises.



At the passenger's finger tips are ash trays, fresh air vents, reading lights. No stray drafts annoy him, yet the air is always fresh and at the proper temperature. He feels relaxed, comfortable and secure.

Aft of the pilot's compartment are the forward cargo and baggage holds of 1450 lbs. capacity, located on each side of the passageway to the main cabin. A lavatory, similar to that of the DC-3 is located at the right side of this aisle aft of the right cargo hold. From this point extends the main cabin with two rows in pairs of 16 richly upholstered chairs separated by a center aisle. Exceptionally large oval windows are especially designed to provide wide, unobstructed vision from either side of the cabin. Aft of the entry door, on the left side of the cabin is

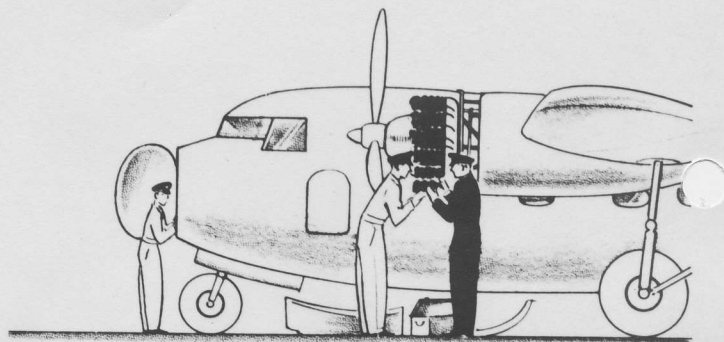




the buffet and the stewardess' folding chair. A coat rack is located on the right side opposite the buffet with a large access door to the rear cargo and baggage hold of 850 lbs. capacity. As propellers are located much farther from the fuselage than has been standard practice, a marked reduction in sound and vibration levels should be noted.

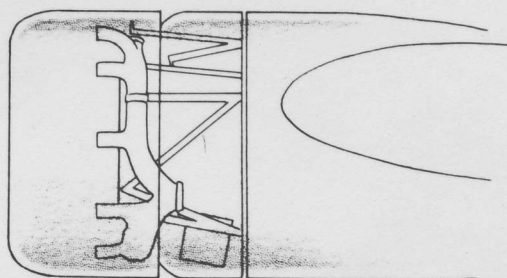
Maintenance

MAINTENANCE ease is exemplified by such items as level position of engines due to tricycle gear and quick access to fuel system strainer from the ground without need for use of a service stand.



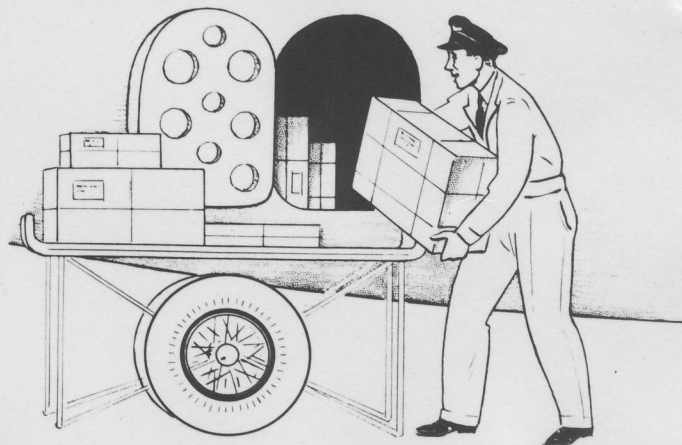
Parts

PARTS such as engine mounts, control columns, rudder pedals, collector rings, pilot's seats, etc. are DC-2 and DC-3 "service perfected parts. Added advantage is a reduced investment in spares.



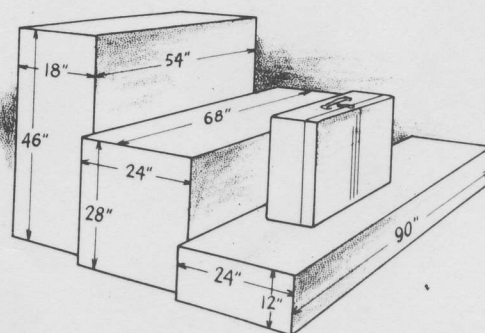
Cargo

CARGO capacity is abundant fore and aft. Holds of extra large dimensions stow consignments of various sizes and shapes. Large doors close to ground simplify and speed up loading operation.

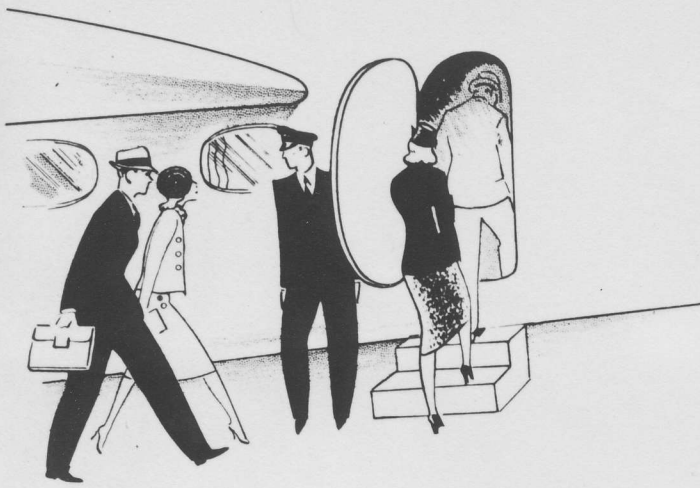


Dimensions

AT RIGHT are illustrated dimensions of largest size pieces that can be accommodated in cargo holds. Among them is represented outside dimensions of plane's spare tire.

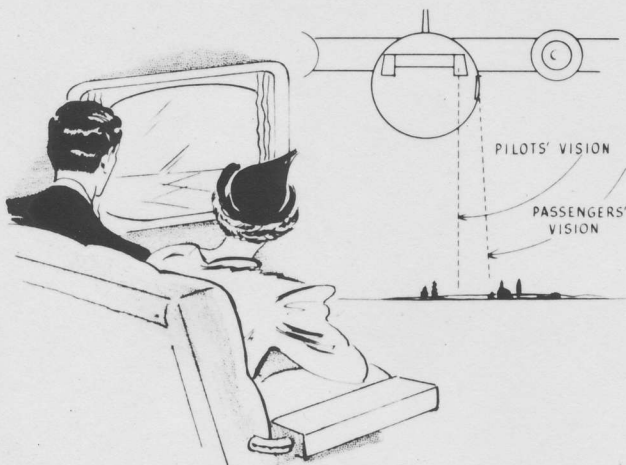
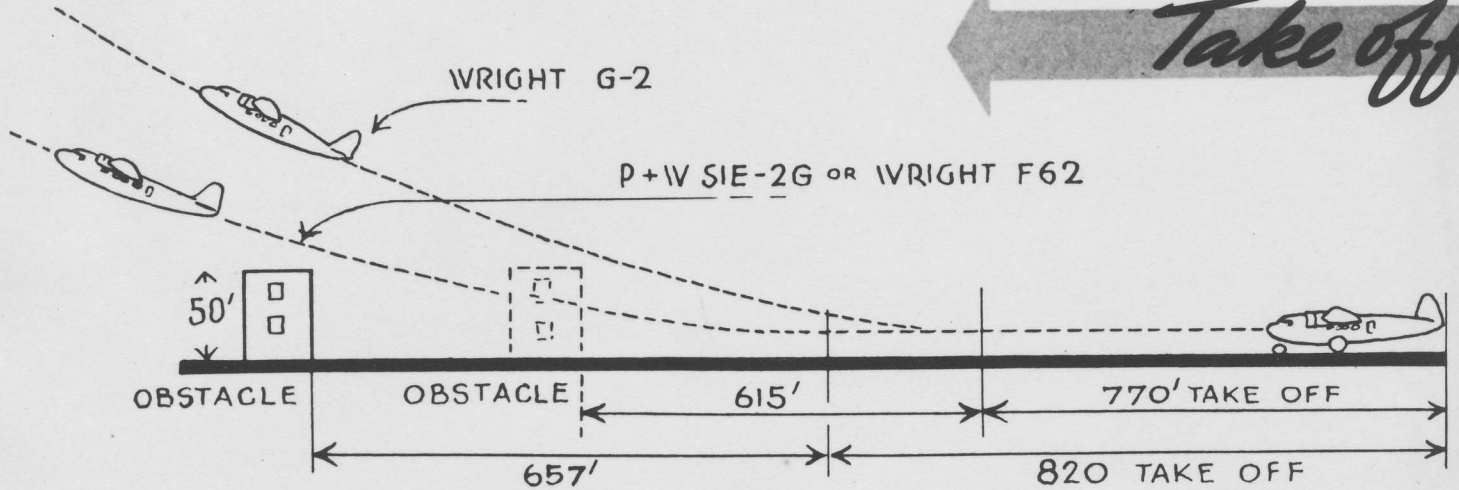


Passengers



PASSENGER entry door proximity to the ground facilitates passenger loading. This feature should reflect favorably in scheduled elapsed time from one end of the route to the other.

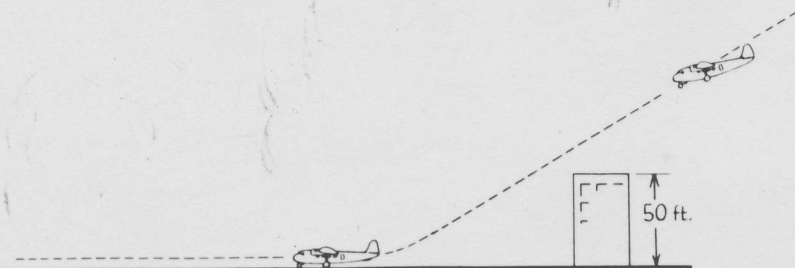
Take off



Vision

GREATER VISION is a DC-5 achievement that is a real contribution to safety, pilot's peace of mind and passenger enjoyment. Important factors are tricycle gear, high wing, windshield angle and placement of cabin windows.

Landing



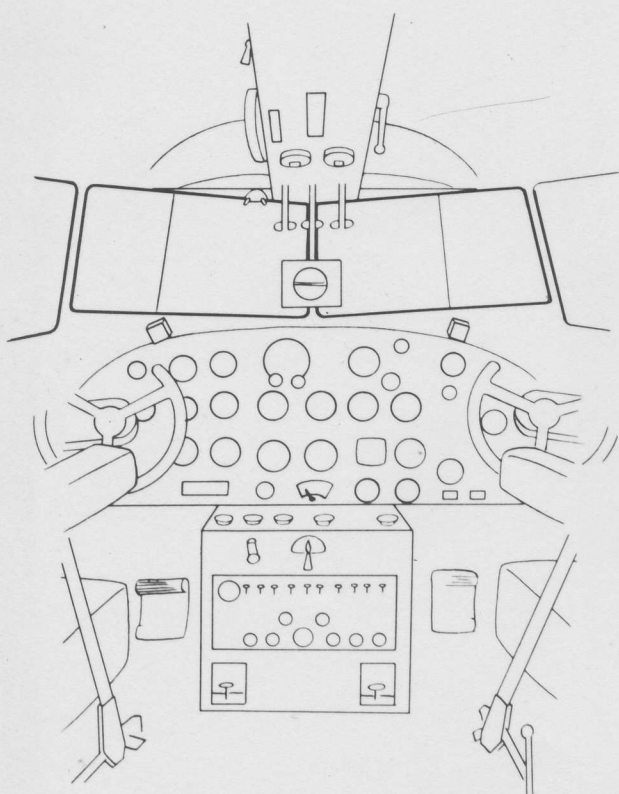
TRICYCLE GEAR as proven with the DC-4 permits abrupt descent at almost any desired angle and provides positive contact with the ground for quick action of brakes to shorten the landing role.

Pilots Compartment

Here, indeed is a "pilot's" airplane with new ease of control, comfort and wide, unobstructed vision. Altho the pilot's compartment follows the DC-3 in general arrangement, numerous innovations are incorporated. Engine controls are slightly overhead but practically at eye level. This position is particularly advantageous when landing. Flight instruments including Sperry artificial horizon and directional gyro (standard equipment) are conveniently arranged in the center panel.

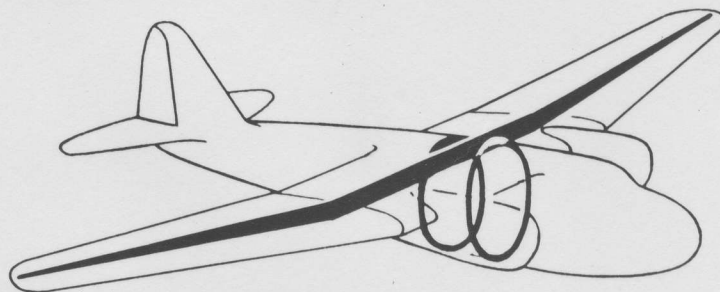
Standard DC-3 pilot's seats are used. These may be adjusted to any desired position. The DC-3 rudder pedals are adjustable and incorporate toe braking. The

flap gear is on the right side of the pilot while the landing gear control is at the co-pilot's left. Exceptionally deep side windows allow wide vision downward. The windshield is at proper angle to eliminate glare and is in two sections with provision for opening in bad weather without rain or snow striking the pilot's face or getting in the pilot's compartment.



Wing

An all metal, full cantilever mono spar wing with fabric covered control surfaces has been selected for its efficiency, simplicity and inherent strength. The entire wing is a torque-stiff structure and incorporates many improvements resulting from 18 years experience in aircraft design and construction. Wing span is 78 feet; wing area is 825 square feet. Wing loading is only 22.1 per square foot which is almost 30% less than other recent designs.



Empennage

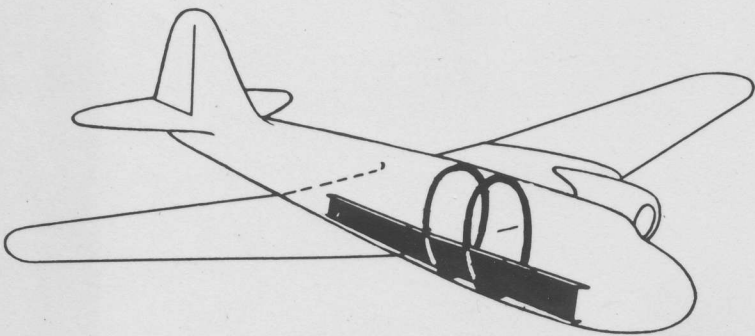
The empennage consists of a single rudder and elevator with vertical and horizontal fins of proven design. They are unusually large, providing exceptional control at low speeds. Both empennage and control surfaces are of the mono spar type. The fixed surfaces are metal covered while movable surfaces are

fabric covered. Surface controls are carefully balanced both statically and dynamically, the section forward of the hinge balancing that directly to the rear of the hinge, thus eliminating torsional flutter and eccentric hinge loads.

Fuselage

The fuselage is of the conventional semi-monocoque type with longitudinal stiffeners and stressed skin covering, similar to the DC-3. A stout fore-and-aft keel or beam is laid along the bottom center line of the ship, running from the nose wheel well to the rear of the main cabin. This beam not only adds rigidity to the fuselage structure but acts as a skid in case of landing with wheels up.

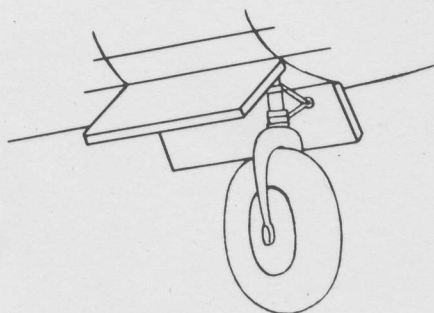
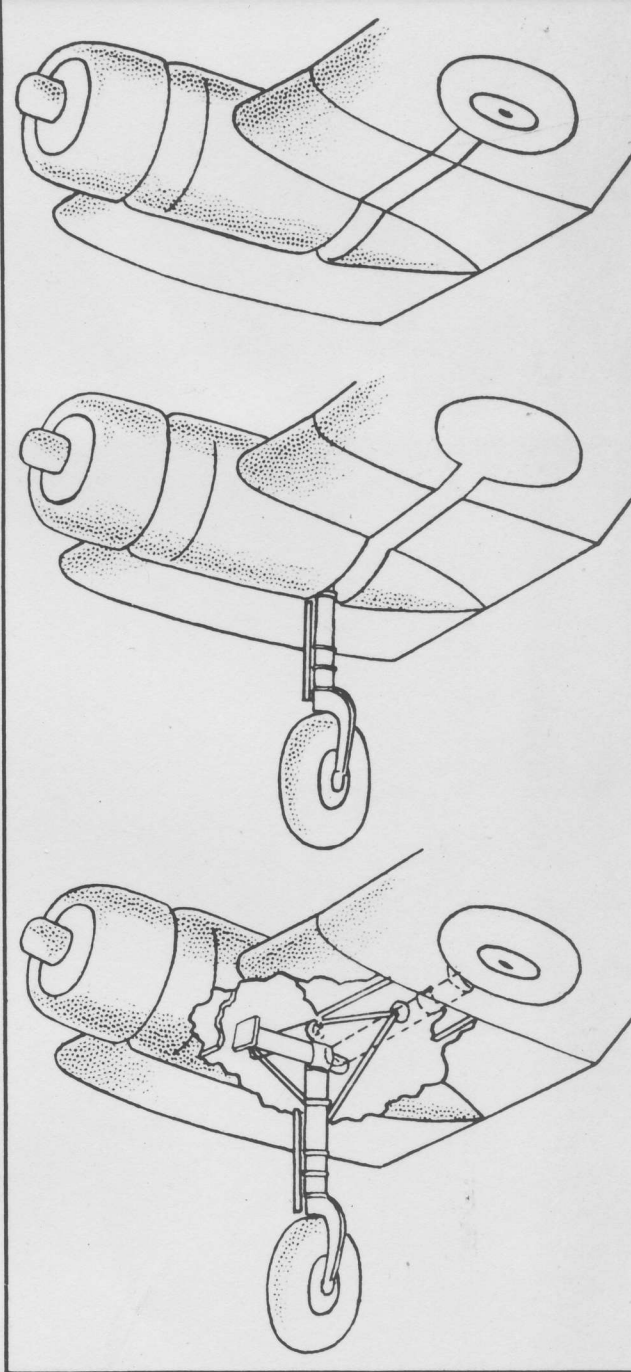
Another unique point in the fuselage is the two truss frames which encircle the cabin and tie into the wing structural members. The cross section of the fuselage is an absolute circle thus providing a very efficient aerodynamic shape and maximum strength per structural pound. From stem to stern it is a structure with good flying and maintenance characteristics. Its overall length is 60'2".



Landing Gear

The landing gear is of the single strut type, similar to the DC-4. The main wheels retract outward and up into the wing by hydraulic control. The system reflects the perfection achieved in preceeding Douglas hydraulic systems.

The nose wheel retracts aft and up into the wheel well in the fuselage and is hydraulically operated simultaneously with the main wheels. In event of hydraulic system failure the landing gear is so designed that it will drop of its own weight and lock in full landing position. In retracted position the nose wheel protrudes sufficiently to act as a forward shock absorber in case of a belly landing. The main gear hydraulic mechanism is located within the wing, protected from dirt. Wheel tread is exceptionally wide, being 22 feet. Wheelbase is 19 feet. Hydraulic brakes will be standard. Tire sizes: Main wheels, 15.00 x 16. Nose wheel, 23" smooth contour. Air wheels of 20 x 10 size will be optional.



Electrical System

Because of short-coupled "in-line" arrangement the electrical system again emphasizes ease of maintenance. Battery is easily installed from the ground and has a hot lead to junction box of only one foot. Radio is located above front baggage hold, over junction box.

Power Plant

Engines and nacelles are in the center wing section and allow a 15" fuselage clearance for the 11'6" full feathering propellers. Engine mounts, controls and some installation parts forward of the firewall are interchangeable with the DC-3. Live rubber shocks dissipate engine vibration. Standard engines are Wright Cyclones F-62 and G2 and Pratt & Whitney Hornet S1E-2G. Engine manufacturers maintain technicians at the Douglas plant to inspect, test and certify each installation.

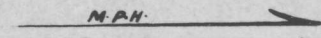







Fuel System

Standard fuel system stores 550 gals. in two tanks in the wing. Each engine has independent fuel supply but can draw from supply of the other as needed. Tanks are new oval design without baffles for positive drainage; their long life is proven by U.S. military service. The oil tanks of similar design are easily cleaned.

DC-5 RANGE AND PAYLOAD

200 MILES

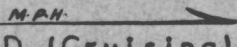







400 MILES

HORSEPOWER	850	917.5	1010	1100	1275 ^{G-2 ONLY}
P & W S1E-2G } —	55%	60%	65%	75%	
Wright F-62 } —					
Wright G-2 —	50%	55%	60%	65%	75%
 SPEED (Cruising)	169	176	183.5	192	203
 PASSENGERS	16	16	16	16	16
MAIL  LBS	S1E-2G/ F-62				
BAGGAGE  LBS		2547	2471	2407	2331
EXPRESS  LBS		2291	2215	2151	2075
	G-2				1916
FUEL (lbs) 	963	1039	1103	1179	1338
CREW Pilots (2)  @ 170 lbs ea. Stewardess (1)  @ 130 lbs	470	470	470	470	470
BUFFET EQUIP. (lbs)	50	50	50	50	50

ASSUMPTIONS: Passengers @ 170 lbs. each. Fuel weight @ 6.4 per gal. Range=Cruising speed plus 7 min. for take-off, 6 min. for climb, .75 hr. fuel reserve. Cruising speeds shown are for the full gross weight of 18,250 lbs. All performances are calculated for still air.

DC-5 RANGE AND PAYLOAD

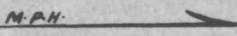







300 MILES

HORSEPOWER	850	917.5	1010	1100	1275 ^{G-2 ONLY}
P & W S1E-2G } —	55%	60%	65%	75%	
Wright F-62 } —					
Wright G-2 —	50%	55%	60%	65%	75%
 SPEED (Cruising)	169	176	183.5	192	203
 PASSENGERS	16	16	16	16	16
MAIL  LBS	2277	2196	2117	2026	
BAGGAGE  LBS					
EXPRESS  LBS	2021	1940	1861	1770	1576
FUEL (lbs) 	1233	1314	1393	1484	1678
CREW Pilots (2)  @ 170 lbs ea. Stewardess (1)  @ 130 lbs	470	470	470	470	470
BUFFET EQUIP. (lbs)	50	50	50	50	50

ASSUMPTIONS: Passengers @ 170 lbs. each. Fuel weight @ 6.4 per gal.
Range=Cruising speed plus 7 min. for take-off, 6 min. for climb,
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DC-5 RANGE AND PAYLOAD

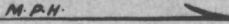







400 MILES

HORSEPOWER	850	917.5	1010	1100	1275 ^{G-2 ONLY}
P & W SIE-2G } ———	55%	60%	65%	75%	
Wright F-62 }					
Wright G-2 ———	50%	55%	60%	65%	75%
 SPEED (Cruising)	169	176	183.5	192	203
 PASSENGERS	16	16	16	16	16
MAIL  LBS	SIE-2G/F-62				
BAGGAGE  LBS		2015	1916	1822	1716
EXPRESS  LBS	G-2	1759	1660	1566	1460
FUEL (lbs) 		1495	1594	1688	1794
CREW  Pilots (2) @ 170 lbs ea. Stewardess (1)  @ 130 lbs		470	470	470	470
BUFFET EQUIP. (lbs)		50	50	50	50

ASSUMPTIONS: Passengers @ 170 lbs. each. Fuel weight @ 6.4 per gal. Range=Cruising speed plus 7 min. for take-off, 6 min. for climb, .75 hr. fuel reserve. Cruising speeds shown are for the full gross weight of 18,250 lbs. All performances are calculated for still air.

DC-5 RANGE AND PAYLOAD

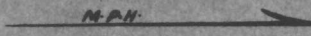







500 MILES

HORSEPOWER	850	917.5	1010	1100	1275 ^{G-2 ONLY}
P & W S1E-2G } —	55%	60%	65%	75%	
Wright F-62 } —					
Wright G-2 —	50%	55%	60%	65%	75%
 SPEED (Cruising)	169	176	183.5	192	203
 PASSENGERS	16	16	16	16	16
MAIL  LBS	S1E-2G/F-62				
BAGGAGE  LBS		1752	1636	1531	1411
EXPRESS  LBS	G-2	1496	1380	1275	1155
FUEL (lbs) 		1758	1874	1979	2099
CREW Pilots (2)  @ 170 lbs ea. Stewardess (1)  @ 130 lbs		470	470	470	470
BUFFET EQUIP. (lbs)		50	50	50	50

ASSUMPTIONS: Passengers @ 170 lbs. each. Fuel weight @ 6.4 per gal. Range=Cruising speed plus 7 min. for take-off, 6 min. for climb, .75 hr. fuel reserve. Cruising speeds shown are for the full gross weight of 18,250 lbs. All performances are calculated for still air.

DC-5 RANGE AND PAYLOAD

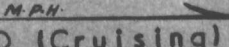







600 MILES

HORSEPOWER	850	917.5	1010	1100	1275 ^{G-2 ONLY}
P & W S1E-2G } — Wright F-62 }	55%	60%	65%	75%	
Wright G-2 —	50%	55%	60%	65%	75%
 SPEED (Cruising)	169	176	183.5	192	203
 PASSENGERS	16	16	16	16	15
MAIL  LBS	S1E-2G/F-62	1487	1351	1237	1101
BAGGAGE  LBS					
EXPRESS  LBS	G-2	1231	1095	981	845
FUEL (lbs) 	2023	2159	2273	2409	2688
CREW Pilots (2)  @ 170 lbs ea. Stewardess (1)  @ 130 lbs	470	470	470	470	470
BUFFET EQUIP. (lbs)	50	50	50	50	50

ASSUMPTIONS: Passengers @ 170 lbs. each. Fuel weight @ 6.4 per gal. Range=Cruising speed plus 7 min. for take-off, 6 min. for climb, .75 hr. fuel reserve. Cruising speeds shown are for the full gross weight of 18,250 lbs. All performances are calculated for still air.

DC-5 RANGE AND PAYLOAD








700 MILES

HORSEPOWER		850	917.5	1010	1100	1275 G-2 ONLY
P & W S1E-2G } —		55%	60%	65%	75%	
Wright F-62 } —						
Wright G-2 —		50%	55%	60%	65%	75%
 SPEED (Cruising)		169	176	183.5	192	203
 PASSENGERS		16	16	16	15	14
MAIL  LBS	S1E-2G/F-62					
BAGGAGE  LBS		1222	1071	942	966	
EXPRESS  LBS	G-2	966	815	686	710	571
FUEL (lbs) 		2288	2439	2568	2714	3023
CREW Pilots (2)  @ 170 lbs ea. Stewardess (1)  @ 130 lbs		470	470	470	470	470
BUFFET EQUIP. (lbs)		50	50	50	50	50

ASSUMPTIONS: Passengers @ 170 lbs. each. Fuel weight @ 6.4 per gal. Range=Cruising speed plus 7 min. for take-off, 6 min. for climb, .75 hr. fuel reserve. Cruising speeds shown are for the full gross weight of 18,250 lbs. All performances are calculated for still air.

DC-5 RANGE AND PAYLOAD

800 MILES

HORSEPOWER	850	917.5	1010	1100	1275 <small>G-2 ONLY</small>
P & W S1E-2G } —	55%	60%	65%	75%	
Wright F-62 } —					
Wright G-2 —	50%	55%	60%	65%	75%
<small>M.P.H.</small> SPEED (Cruising)	169	176	183.5	192	203
 PASSENGERS	16	15	15	14	12
MAIL  LBS	S1E-2G/F-62				
BAGGAGE  LBS		957	961	817	826
EXPRESS  LBS	G-2	701	705	561	570
FUEL (lbs) 	2553	2719	2863	3024	3358
CREW Pilots (2)  @ 170 lbs ea. Stewardess (1)  @ 130 lbs	470	470	470	470	470
BUFFET EQUIP. (lbs)	50	50	50	50	50

ASSUMPTIONS: Passengers @ 170 lbs. each. Fuel weight @ 6.4 per gal. Range=Cruising speed plus 7 min. for take-off, 6 min. for climb, .75 hr. fuel reserve. Cruising speeds shown are for the full gross weight of 18,250 lbs. All performances are calculated for still air.

RANGE vs PAYLOAD

W.A.C. Cyclone F-62 or P. & W. Hornet SIF-2G

SPEED, POWER		157 MPH-253 KPM, 50%		169 MPH-272 KPM, 55%		175 MPH-283 KPM, 60%		182 MPH-293 KPM, 65%		192 MPH-303 KPM, 70%	
Range *		Pass	Express	Pass	Express	Pass	Express	Pass	Express	Pass	Express
200 mi 322 kms	16	2621 lbs 1189 kg	2547 lbs 1155 kg	16	2471 lbs 1111 kg	16	2407 lbs 1092 kg	16	2331 lbs 1057 kg	16	2266 lbs 1022 kg
300 mi 483 kms	16	2365 lbs 1073 kg	2277 lbs 1033 kg	16	2196 lbs 996 kg	16	2117 lbs 960 kg	16	2026 lbs 919 kg	16	1947 lbs 886 kg
400 mi 644 kms	16	2113 lbs 958 kg	2015 lbs 914 kg	16	1916 lbs 869 kg	16	1822 lbs 826 kg	16	1716 lbs 778 kg	16	1611 lbs 732 kg
500 mi 804 kms	16	1863 lbs 845 kg	1752 lbs 795 kg	16	1636 lbs 742 kg	16	1531 lbs 694 kg	16	1411 lbs 640 kg	16	1291 lbs 586 kg
600 mi 965 kms	16	1609 lbs 730 kg	1487 lbs 674 kg	16	1351 lbs 613 kg	16	1237 lbs 561 kg	16	1101 lbs 499 kg	16	986 lbs 448 kg
700 mi 1126 kms	16	1355 lbs 615 kg	1222 lbs 554 kg	16	1071 lbs 486 kg	16	942 lbs 427 kg	15	826 lbs 375 kg	14	711 lbs 322 kg
800 mi 1287 kms	16	1101 lbs 499 kg	957 lbs 434 kg	15	961 lbs 436 kg	16	817 lbs 371 kg	14	696 lbs 315 kg	13	581 lbs 263 kg
900 mi 1448 kms	16	847 lbs 384 kg	867 lbs 393 kg	14	859 lbs 390 kg	12	739 lbs 335 kg	12	614 lbs 283 kg	11	501 lbs 227 kg
1000 mi 1609 kms	16	601 lbs 273 kg	763 lbs 346 kg	12	913 lbs 414 kg	12	739 lbs 335 kg	11	614 lbs 283 kg	11	501 lbs 227 kg

FUEL GAL HP	62	74	82	92
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Wright Aero Corp. Cyclone G2

SPEED, POWER		169 MPH-272 KPM, 50%		177 MPH-285 KPM, 55%		185 MPH-298 KPM, 60%		192 MPH-309 KPM, 65%		203 MPH-327 KPM, 75%	
Range *		Pass	Express	Pass	Express	Pass	Express	Pass	Express	Pass	Express
200 mi 322 kms	16	2291 lbs 1039 kg	2215 lbs 1005 kg	16	2151 lbs 975 kg	16	2075 lbs 941 kg	16	1916 lbs 869 kg	16	1756 lbs 795 kg
300 mi 483 kms	16	2021 lbs 917 kg	1940 lbs 880 kg	16	1861 lbs 844 kg	16	1770 lbs 803 kg	16	1576 lbs 715 kg	16	1416 lbs 644 kg
400 mi 644 kms	16	1759 lbs 798 kg	1600 lbs 753 kg	16	1566 lbs 710 kg	16	1460 lbs 662 kg	16	1341 lbs 609 kg	16	1221 lbs 558 kg
500 mi 804 kms	16	1496 lbs 678 kg	1380 lbs 626 kg	16	1275 lbs 578 kg	16	1155 lbs 524 kg	16	1006 lbs 454 kg	15	886 lbs 402 kg
600 mi 965 kms	16	1221 lbs 558 kg	1095 lbs 497 kg	16	981 lbs 445 kg	16	845 lbs 383 kg	15	726 lbs 334 kg	14	606 lbs 275 kg
700 mi 1126 kms	16	966 lbs 438 kg	815 lbs 370 kg	16	686 lbs 311 kg	15	710 lbs 322 kg	14	571 lbs 259 kg	12	451 lbs 205 kg
800 mi 1287 kms	16	701 lbs 318 kg	705 lbs 320 kg	15	561 lbs 254 kg	14	570 lbs 258 kg	12	451 lbs 205 kg	10	331 lbs 150 kg
900 mi 1448 kms	15	611 lbs 277 kg	603 lbs 273 kg	12	778 lbs 353 kg	12	601 lbs 273 kg	10	451 lbs 205 kg	9	331 lbs 150 kg
1000 mi 1609 kms	14	507 lbs 230 kg	657 lbs 297 kg	12	483 lbs 219 kg	11	465 lbs 211 kg	9	331 lbs 150 kg	9	297 lbs 135 kg

FUEL GAL HR	70	77	84	92	107
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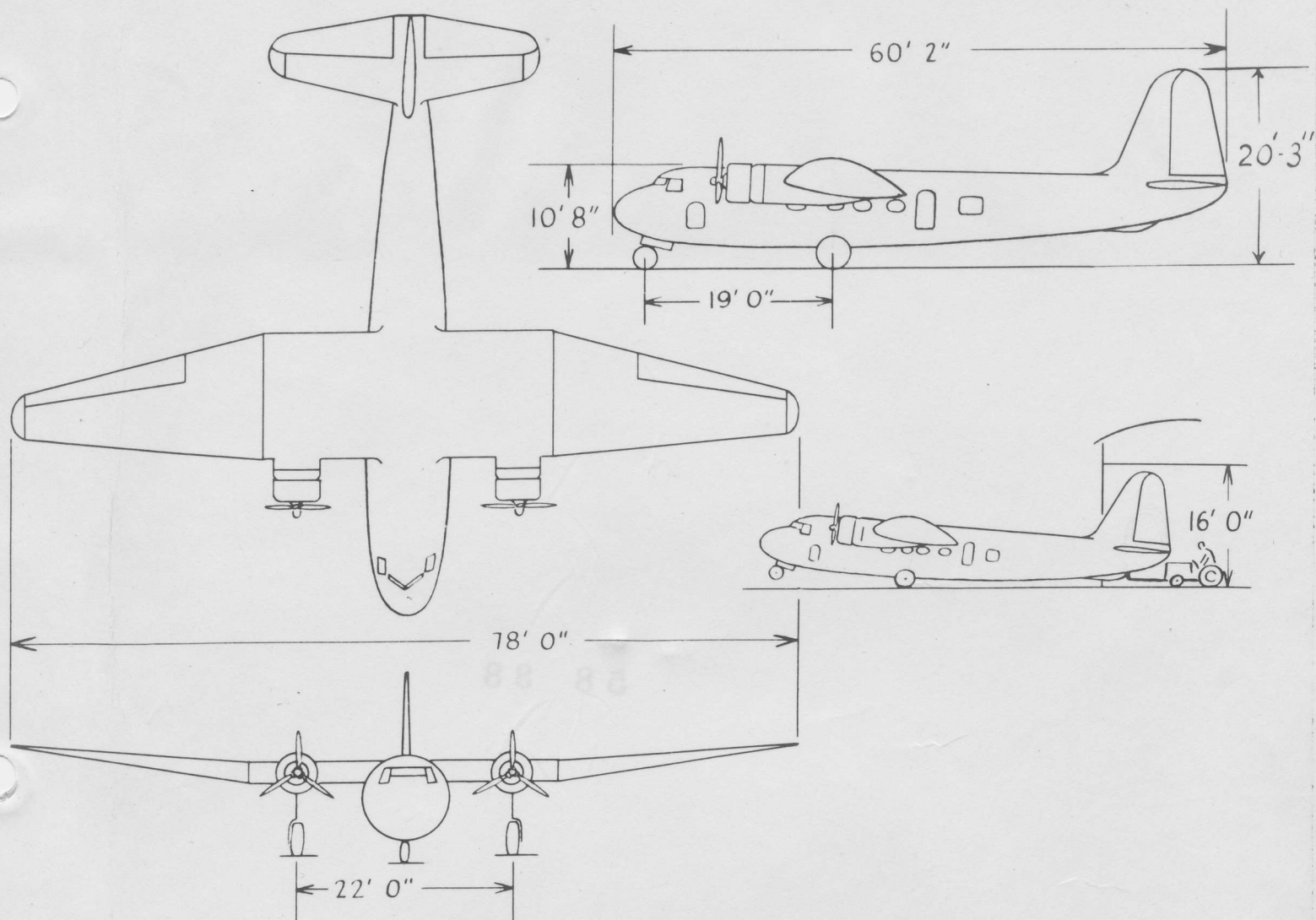
ASSUMPTIONS:

Passengers @ 170 lbs. each. Personal baggage at 35 lbs. each included in express. Fuel weight @ 6.4 per gal. Range Cruising speed plus 7 min. for take-off, 6 min. for climb, .75 hr. fuel reserve. Cruising speeds shown are for the full gross weight of 18,250 lbs. All performances are calculated for still air.

DC-5 PERFORMANCE AND WEIGHTS

Engine	Cyclone F62	Cyclone F62	Hornet SIEG	Hornet SIEG	Cyclone G2	Cyclone G2
Rated power per engine	760 hp	770.6 cv	750 hp	760.5 cv	850 hp	862 cv
at critical altitude of	5800 ft	1768 m	7000 ft	2134 m	5800 ft	1768 m
Sea level Take-off power	900 hp	912.6 cv	875 hp	887.2 cv	1000 hp	1014 cv
Emergency power	810 hp	821.3 cv	800 hp	811.2 cv	None	None
Power loading rated	12 #/hp	5.36 kg/cv	12.17 #/hp	5.44 kg/cv	10.9 #/hp	4.87 kg/cv
Take-off	10.15 #/hp	4.54 kg/cv	10.42 #/hp	4.66 kg/cv	9.2 #/hp	4.11 kg/cv
Emergency	11.25 #/hp	5.03 kg/cv	11.40 #/hp	5.10 kg/cv	10.9 #/hp	4.87 kg/cv
Wing loading	22.1 #/ft ²	107.90 kg/m ²	22.1 #/ft ²	107.90 kg/m ²	22.1 #/ft ²	107.90 kg/m ²
Speed - maximum	215 mph	346 kph	217 mph	349 kph	224 mph	360 kph
at altitude of	6800 ft	2072 m	8000 ft	2438 m	6800 ft	2072 m
Cruising, 10,000 ft (3048 m) @ 65% power ..	182 mph	293 kph	182 mph	293 kph	192 mph	309 kph
60% power ..	176 mph	283 kph	176 mph	283 kph	185 mph	298 kph
50% power ..	157 mph	253 kph	157 mph	253 kph	169 mph	272 kph
Landing	64 mph	103 kph	64 mph	103 kph	64 mph	103 kph
Ceiling - Normal Service	21,700 ft	6614 m	22,600 ft	6888 m	23,400 ft	7132 m
Absolute, single engine	10,550 ft	3215 m	10,630 ft	3240 m	11,000 ft	3353 m
Service, single engine	* 9,250 ft	* 2819 m	* 9,270 ft	* 2856 m	* 9,650 ft	* 2941 m
Maximum rate of climb - critical altitude	1,050 ft/min	320 m/m	1,000 ft/min	305 m/m	1,225 ft/min	373 m/m
Sea level, climb	1,280 ft/min	420 m/m	1,320 ft/min	402 m/m	1,580 ft/min	481 m/m
Sea level, 1 engine climb	215 ft/min	65 m/m	210 ft/min	64 m/m	225 ft/min	68 m/m
Take-off run, no flaps - sea level	800 ft	244 m	840 ft	256 m	770 ft	235 m
5000 ft (1524 m)	895 ft	273 m	950 ft	289 m	890 ft	271 m
Take-off over 50 ft (15 m) obstacle	1440 ft	439 m	1510 ft	460 m	1385 ft	422 m
Weight empty	11,500 lbs	5216 kg	11,500 lbs	5216 kg	11,756 lbs	5332 kg
Total Useful Load	6,750 lbs	3062 kg	6,750 lbs	3062 kg	6,494 lbs	2945 kg
Total Gross Weight	18,250 lbs	8278 kg	18,250 lbs	8278 kg	18,250 lbs	8278 kg

* Single engine service ceiling increases at constant rate of 500 ft. for reduction of each 350 lbs. in gross weight.



CLEARANCE of 4" from fin tip to 16' hangar door beam is allowed by raising nose wheel 28". This clears propellers. Operation is simple with tractor and a winch.



DOUGLAS AIRCRAFT COMPANY, INC.
SANTA MONICA, CALIFORNIA

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